BLACK

BlackHawk for MAC Software User Guide

Products: BLK-DH2 Series and BLK-HD Series DVRs



Please read this manual before using your software, and always follow the instructions for safety and proper use. Save this manual for future reference.

LEGAL NOTICE

Observint Technologies (Observint) products are designed to meet safety and performance standards with the use of specific Observint authorized accessories. Observint disclaims liability associated with the use of non-Observint authorized accessories.

The recording, transmission, or broadcast of any person's voice without their consent or a court order is strictly prohibited by law.

Observint makes no representations concerning the legality of certain product applications such as the making, transmission, or recording of video and/or audio signals of others without their knowledge and/or consent. We encourage you to check and comply with all applicable local, state, and federal laws and regulations before engaging in any form of surveillance or any transmission of radio frequencies.

Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. **Observint** disclaims any proprietary interest in trademarks and trade names other than its own.

No part of this document may be reproduced or distributed in any form or by any means without the express written permission of ${\it Observint}.$

© 2012 by Observint, Inc. All Rights Reserved.

11000 N. Mopac Expressway, Building 300, Austin, TX 78759 For Sales and Support, contact your distributor.

Table of Contents

SECTION 1	Installation and Setup	1
	1.1 About BlackHawk for MAC	1
	1.1.1 System requirements	1
	1.2 Getting started	1
	1.2.1 Finding the DVR network settings	1
	1.2.2 Finding your Apple Macintosh network settings	2
	1.2.3 Connecting to your DVR	4
	1.3 Installing and starting BlackHawk for MAC	4
	1.3.1 Connecting to your DVR	
	1.4 Live window	5
	1.4.1 Using Site Entry registration	6
	1.5 Closing the app	7
SECTION 2	Search and Playback Video	
SECTION 3	Remote Configuration Setup.	
	3.5.1 DISPLAY setup	11
	3.5.2 Record	
	3.5.3 Device	13
	3.5.4 Storage	
	3.5.5 System	
	3.5.6 Network	
	3.5.7 Upgrade	
	3.5.8 Information	

NOTES

SECTION 1 Installation and Setup

1.1 About BlackHawk for MAC

BlackHawk for MAC, the network-based administrative interface to the DVR, is used with an Apple® Macintosh® OS X® computer to monitor and control the DVR across a network. It can be used to view live video, configure the DVR SETUP menus, and search for and watch recorded video. BlackHawk for MAC can display up to 16 video channels (live or recorded video) simultaneously.

1.1.1 System requirements

To install and use the BlackHawk for MAC application, your Macintosh computer must have at least:

- Operating system: OS X 10.6 and above
- **CPU**: Intel® Core™2 Duo processors
- RAM: 2GB
- VGA: NVIDIA® or AMD ATI™ graphics interface

1.2 Getting started

To connect to your DVR, the DVR must be configured and connected to a network. The URL (internet address) to use with BlackHawk for MAC to connect to the DVR depends what network(s) your Apple Macintosh computer and DVR are connected to. You can determine the network settings of your computer and DVR using the following procedures.

1.2.1 Finding the DVR network settings

To find the network settings of your DVR:

- a. Right click anywhere on the DVR desktop screen and then click **SETUP**.
- b. Enter your administrator password, if needed, to open the system setup menus.
- c. Click the NETWORK menu icon to see your network settings. NOTE: The local IP address and port number of your DVR may be different from that shown in the window below.





System menu (left) and SETUP NETWORK menu (right)

1.2.2 Finding your Apple Macintosh network settings

To find the network settings of your Apple Macintosh computer:

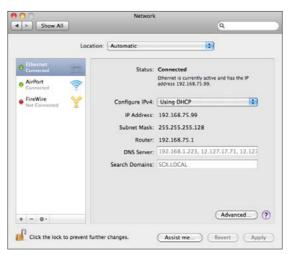
1. Click the "gear-like" **System Preferences** icon in the desktop dock.



2. In the System Preferences window, click the **Network** icon.



3. Find the current network settings for your computer on the Network window. This window shows your network connection(s), your IP address(es), etc. The settings in the window for your computer will be different from the ones shown below.



1.2.3 Connecting to your DVR

Considering the network settings of your DVR and those of your computer, determine the best way to connect. For instance:

- If your computer and DVR are on the same LAN (connected to the same router), you can address your DVR in BlackHawk
 for MAC with the local IP address of your DVR. See the DVR NETWORK menu window above.
- If you are accessing your DVR across the internet, your DVR is may be addressed through a port forwarded by the router your DVR is connected to, or through a connection to a DDNS web service such as ddnscenter.com (preferred). To use this service for accessing your DVR across the internet, refer to ddnscenter.com for more information.
- **Other**: Depending on the network configuration of your computer and DVR, there may be other ways to addressing your DVR across the network. For more information, consult with the support organization provided by your vendor.

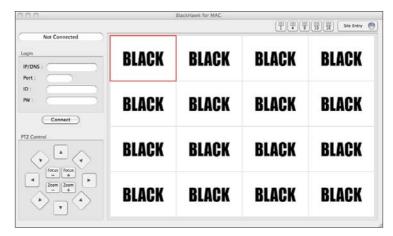
1.3 Installing and starting BlackHawk for MAC

The BlackHawk for MAC application is contained on the software disk provided with your system. To use the program:

- 1. Insert the software disk into the optical drive on your Macintosh computer.
- 2. Install the BlackHawk for MAC application using standard OS X installation procedures. When the installation is complete, the following icon will appear on the desktop.

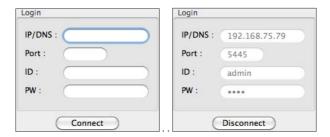


3. Double-click the **BlackHawk for MAC** icon to start the application.



1.3.1 Connecting to your DVR

In the Login frame, enter the **IP/DNS** address of your DVR, the port number (usually 5445 by default), and your user **ID** and password (**PW**).



After entering the appropriate information in the Login frame, click the **Connect** button. BlackHawk for MAC will connect to your DVR and open the "live" window.

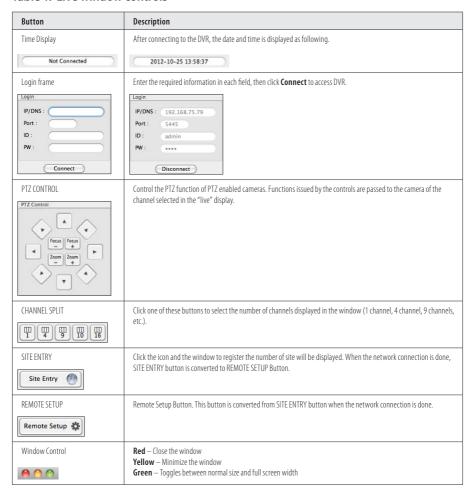
1.4 Live window

A typical Live window with a 4-channel display is shown below. Components of the window are described in the table below.



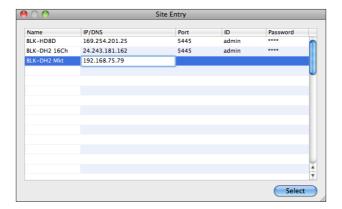
SECTION 1: INSTALLATION AND SETUP

Table 1. Live window controls



1.4.1 Using Site Entry registration

The Site Entry feature allows you to preset login settings for different DVRs, then access those settings to connect easily and quickly. Click the **Site Entry** button to preset a login for your DVR.



To create a login entry, click a field on a line in the window, then enter the appropriate information for your DVR.

Click the line for the DVR you want to connect to, then click **Select**. The fields on the Login frame of the main window will be populated with the settings on the line you selected.

NOTE

If multiple users access the DVR through your Macintosh, and you want to restrict access to an administrator login, leave the password field blank on the Site Entry line and enter your password in the Login frame of the main window before clicking **Connect**.

1.5 Closing the application

There are two ways to close the BlackHawk for MAC application:

1. Click the red ball in the upper left corner of the application window.



2. Open the drop-down list under the app name on the menu bar, then select **Quit BlackHawk for MAC**.



SECTION 2

Search and Playback Video

To access the search and playback features of BlackHawk for MAC, open a "Live" window, then in the menu bar, open the **File** drop-down list and select **New Search View**.



The **Search** window will open.

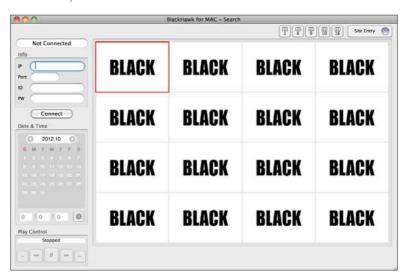
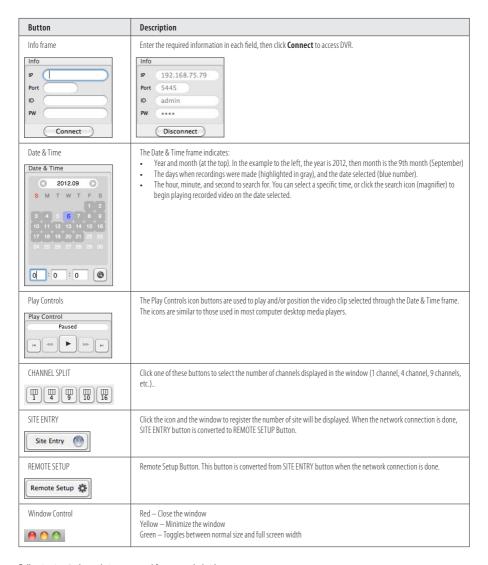


Table 2. Search window controls and indicators

Button	Description
Time Display	After connecting to the DVR, the date and time is displayed as following.
Not Connected	2012-10-25 13:58:37

SECTION 2: SEARCH AND PLAYBACK VIDEO



Following is a 1-channel view captured from recorded video.

SECTION 2: SEARCH AND PLAYBACK VIDEO

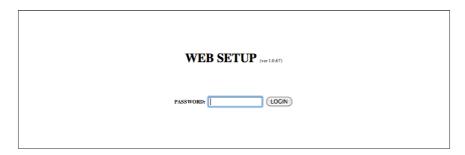


The BlackHawk for MAC application cannot be used to backup video clips or create screen captures.

SECTION 3

Remote Configuration Setup

The DVR system SETUP configuration can be controlled through BlackHawk for MAC. You must be logged into the DVR with Administrator privileges to use this feature. To access the DVR SETUP menus, click the **REMOTE SETUP** button, enter the password of your administrator login, then click the **LOGIN** button.



DVR SETUP menus shown through REMOTE SETUP are nearly identical to those viewed at the DVR. Differences exist depending on the DVR model you connect to. SETUP screens shown below were captured from BlackHawk for MAC connected to an BLK-DH2 HD DVR

- To move to another screen, click the respective tab.
- To close **REMOTE SETUP**, click the RED window control button.

NOTE REMOTE SETUP is prohibited if the DVR local SETUP menu is open.

3.5.1 DISPLAY setup



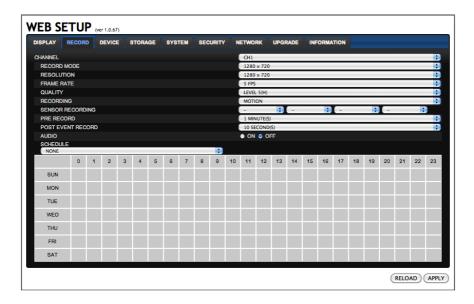
- **OSD**: Enables the display of date time and channel number on each video channel display.
- **OSD CONTRAST**: Adjust the character contrast on the screen.

SECTION 3: REMOTE CONFIGURATION SETUP

- **SEQUENCE**: Setting for automatically switching the displayed video.
- **SEQUENCE DWELL TIME**: Sets the interval for automatically switching screens.
- CHANNEL: Name, Covert, Brightness, Contrast, Hue, Saturation

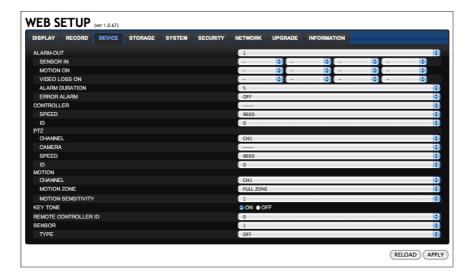
NOTE *Channels with high definition (HD) cameras do not have settings for Brightness, Contrast, Hue, and Saturation.*

3.5.2 Record



- CHANNEL setup
 - RESOLUTION: Set the resolution for the recordings. The set value applies to an channel selected.
 - FRAME RATE: Set the recording rate.
 - QUALITY: Set the image quality to one of 5 levels.
 - RECORDING: Set the recording mode. CONTINUOS, SCHEDULE, MOTION
 - SENSOR RECORDING: Select the sensor number that is linked with recording channel.
 - PRE RECORD: Select to set pre recording mode.
 - POST EVENT RECORD: Sets the duration of the event recording after pre-record.
 - AUDIO: Select to set audio recording.

3.5.3 Device



- ALARM OUT: Set the Sensor In, Motion, and Video Loss for triggering alarm relay HDD Error and Video Loss can trigger beeping.
- **CONTROLLER**: Set the controller baud rate and ID.
- **PTZ**: Set the PTZ baud rate, protocol, and RS-485 network ID.
- MOTION: Setup the motion detection area and the sensitivity.
 - SITE: Select the channel
 - MOTION ZONE: FULL 7 one or PARTIAL 7 one
 - MOTION SENSITIVITY: 1~9 (High sensitivity level)
- **KEY TONE**: Sets the Key Tone On or Off.
- **REMOTE CONTROLLER ID**: Sets an ID number on the supplied remote control for its identification.
- **SENSOR TYPE**: Select the type of each sensor.

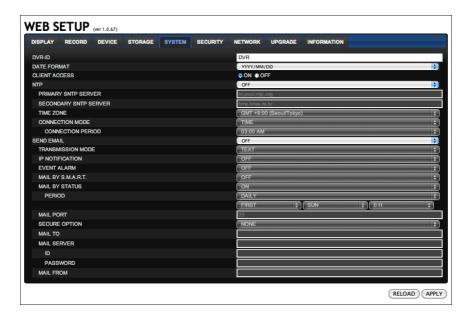
SECTION 3: REMOTE CONFIGURATION SETUP

3.5.4 Storage



- OVERWRITE: Check the box to continue recording by overwriting data when the hard disk becomes full.
- **RECORD LIMIT**: Select to limit the recording data storage period.
- **S.M.A.R.T.**: Sets the TEMPERATURE LIMIT of the Hard Disk to trigger the ALARM and BUZZER.

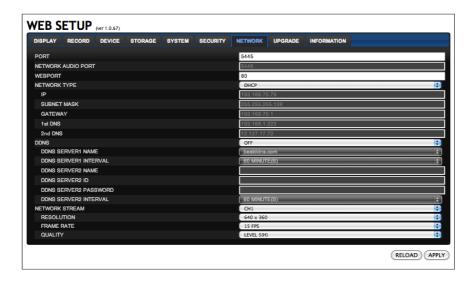
3.5.5 System



- **DVR ID**: Name the DVR
- DATE FORMAT: Select the date display format.
- **CLIENT ACCCESS**: Enable/Disable remote access through network client software.

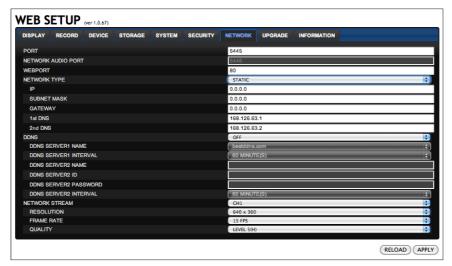
- **NTP**: Set to synchronize the time using an NTP server.
 - PRIMARY SNMP SERVER: Input the primary NTP server address.
 - SECONDARY SNMP SERVER: Input the secondary NTP server address.
 - TIME ZONE: Select the time zone.
 - CONNECTION MODE: Select the connection mode to NTP time server.
- SEND E-MAIL: Fnable/disable e-mail feature.
 - TRANSMISSION MODE: Select the mail transmission mode (TEXT or VIDEO).
 - IP NOTIFICATION: Enable/disable sending e-mail when the IP address is changed.
 - **EVENT ALARM**: Enable/disable sending e-mail reports when an alarm event is triggered.
 - MAIL BY S.M.A.R.T.: Enable/disable sending e-mail reports when S.M.A.R.T. is triggered
 - MAIL BY STATUS: Enable/disable sending periodical e-mail of the system status.
 - MAIL PORT: Mail port setting.
 - SECURE OPTION: Select the secure mail server connection. (SSL or TLS)
 - MAIL TO: Input the appropriate email address to enable sending e-mail reports
 - MAIL SERVER: Input the SMTP server name, the user ID and password.
 - MAIL FROM: Set the source e-mail address.

3.5.6 Network



- **PORT**: When connecting multiple DVRs to the network, set a unique port number.
- **NETWORK AUDIO PORT**: Display the network audio port (NETWORK PORT + 1).
- **WEB PORT**: Set a web server port number.
- NETWORK TYPE
 - STATIC: The address setting mode is manual. Input IP, Gateway, Subnet Mask, and DNS IP.

SECTION 3: REMOTE CONFIGURATION SETUP



- DHCP: The address setting mode is automatic.
- **DDNS**: Set whether to use DDNS service or not.
- **NETWORK STREAM**: Set the Resolution, Frame Rate, and the Quality.

3.5.7 Upgrade



- **Browse**: Select BROWSE to locate the firmware file.
- **Upgrade**: Select UPGRADE to upgrade the firmware of the DVR.

3.5.8 Information

